

FILE NOTATIONS

Entered in NID File
 Location Map Pinned
 Card Indexed
 ✓

Checked by Chief
 Approval Letter
 Disapproval Letter
 PWB
 6-2-72

COMPLETION DATA:

Date Well Completed 7-10-72

Location Inspected

..... WW..... TA.....

Bond released

..... OS..... PA.....

State or Fee Land

LOGS FILED

Driller's Log.....

Electric Logs (No.)

E..... I..... Dual I Lat..... GR-N..... Micro.....

HC Sonic GR..... Lat..... Mi-L..... Sonic.....

CBLog..... CCLog..... Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Webb Resources, Inc.

3. ADDRESS OF OPERATOR

1776 Lincoln Street, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

At proposed prod. zone

(to be submitted with Plat)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

2,560.00

17. NO. OF ACRES ASSIGNED
TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

3000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START*

Upon Approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13-3/8"	24#	180'	Sufficient to fill to surface

PROPOSED WORK:

1. Drill 17" rotary hole for surface casing to approx. 180'
2. Cement approx. 180' of 13-3/8" surface casing with sufficient sxs cement to fill to surface.
3. Install and test blowout preventor equipment.
4. Blowout preventor to be given a daily operational test and each logged.
5. Drill 7-7/8" hole to approx. 3000' in the White Rim formation.
6. Run IES and Gamma Ray Sonic Caliper logs.
7. If commercial production is indicated, cement 5 1/2" casing through productive sand and perforate 4 jet holes per foot.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE Exploration Manager

DATE 5-31-72

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

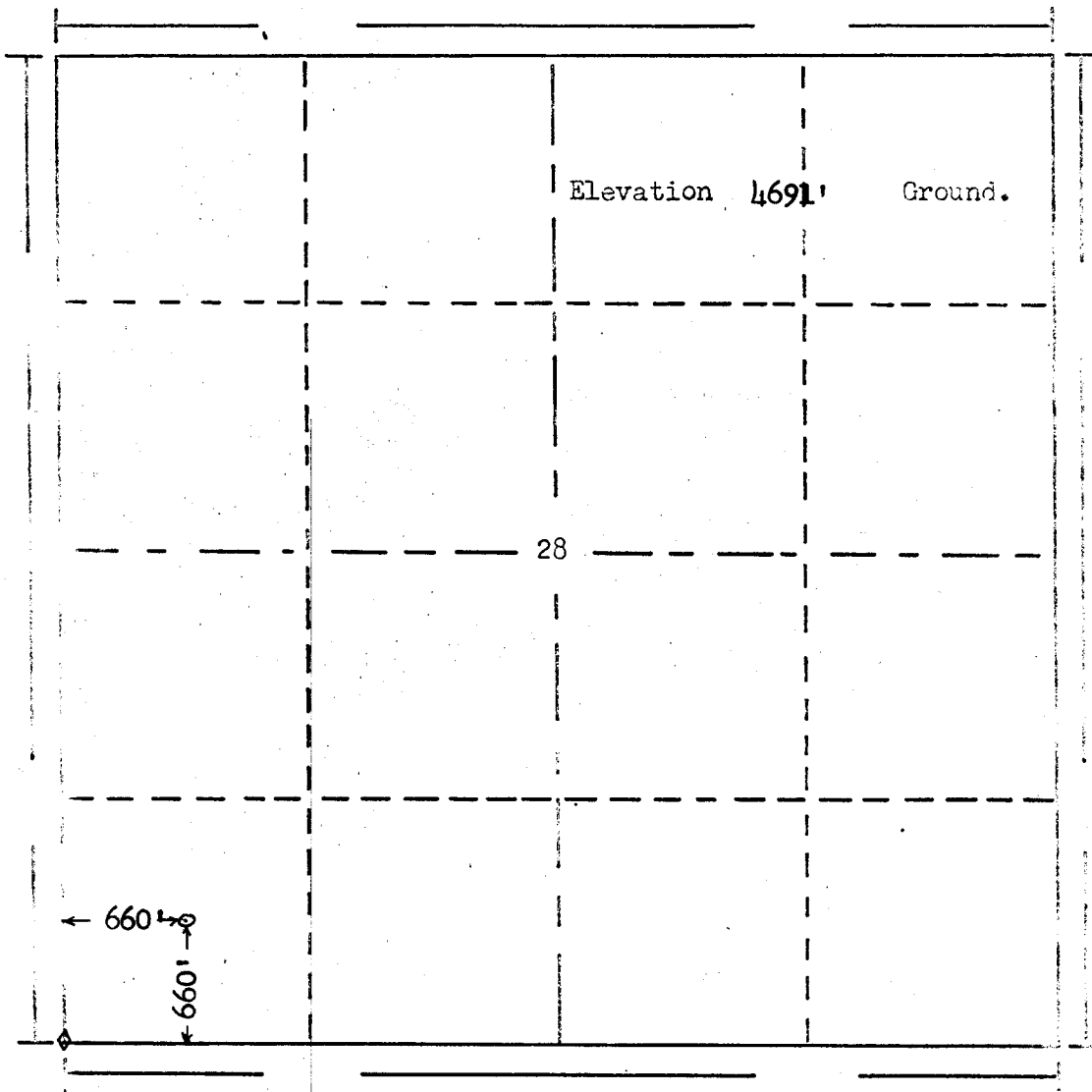
DATE

CONDITIONS OF APPROVAL, IF ANY:

TIGHT HOLE
*See Instructions On Reverse Side

*Cup*

R. 8 E.

T.
39
S.

Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
has in accordance with a request from Orlin Terry
for Webb Resources
determined the location of #28-13 Federal
to be C SW SW Section 28 Township 39 S.
Range 8 E. of the Salt Lake Meridian
Kane County, Utah

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of

#28-13 (Federal)

Date: 6-2-72

[Signature]
Licensed Land Surveyor No. 20382
State of Utah

MEMO

webb

resources, inc.

1776 LINCOLN STREET
DENVER, COLORADO 80203

TO: Utah Oil & Gas Commission 1588 West North Temple Salt Lake City, Utah 84116	ATTN:
FROM: Orlyn Terry, Exploration Manager	DATE: 5-31-72
SUBJECT: APPLICATIONS FOR PERMIT TO DRILL	REF:

Enclosed for your approval, please find the Applications for Permit to drill on the following wells:

#15-12 Woolsey NE SW Sec. 15-36S-3E Garfield Co., Utah

#28-13 Federal SW SW Sec. 28-39S-8E Kane County, Utah

The Survey plats will be forwarded to your office as soon as possible.

Thank you.

OLT:sm
enc

SIGNED

Orlyn Terry, sm

June 5, 1972

Webb Resources Inc.
1776 Lincoln Street
Denver, Colorado

Re: Well No. Federal #28-13
Sec. 28, T. 39 S, R. 8 E,
Kane County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted. However, said approval is conditional upon a surveyor's plat of the proposed location being forwarded this office as soon as possible.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with regard to completing this form will be greatly appreciated.

The API number assigned to this well is 43-025-30010.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

4

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah 84111

June 16, 1972

Mr. Orlyn Terry
Webb Resources, Inc.
1766 Lincoln Street
Denver, Colorado 80203

Re: Well 28-13 Federal
SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28-39S-8E, SIM
Kane County, Utah
Lease U 9274

Dear Mr. Terry:

Enclosed is your copy of the Application for Permit to Drill the referenced well which was approved by this office on June 15, 1972.

I wish to draw your attention to the stipulation attached to the lease insofar as it concerns the discovery of significant archeologic remains during construction operations. Any such discovery requires that construction be halted until the remains are examined by the Bureau of Land Management.

If you decide to complete the well for production, the 5 $\frac{1}{2}$ inch casing must be cemented through the interval of about 1600' to 1400' to protect fresh water in the Navajo formation.

Sincerely,

(ORIG. SGD.) G. R. DANIELS

Gerald R. Daniels,
District Engineer

cc: BLM, Kanab
State Div. O&G Cons.
Casper

Put land wall lost @ about 1800' &
plugged

Mike Webster

Webb Resources

28-13 FEDERAL

TD 3091

215 13 $\frac{3}{4}$ " CE w/260 -

No Freshwater shallow

8 $\frac{3}{4}$ hole -

Tops

2800 up w/40

Rayenta 1430

1000 up w/40

Chinle 1850

215 up w/40

Shinarump 2140 - Tstd 1800' water

10 w mkr.

Karbab 2735

Wh Rim 2800 - Tstd 1800' water

Oral ~~approval~~ approval to abd 7-9-72

James

28-13 Fed - Webb Reserves.
sec 28 39 S 8 E

3091 T.D. Whitum - water only
↓
1800' of Water (fresh)
also Shinarump.

U. S. G. S. Called 7/10/72 and
stated above water has been Plugged off and
hole P & A. — JWB

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

USA-U-9274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

#28-13

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 28-39S-8E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4691' G.L.

12. COUNTY OR PARISH

Kane

13. STATE

Utah

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐
☐

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

☐
☐
☒
☐
☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was spudded 6-28-72 and drilled to a total depth of 3092'. This well was proven non-productive and therefore, plugged and abandoned 7-10-72, per Mr. Gerald Daniels, USGS, as follows:

PLUGS: 2825-2725 40 sxs
1000- 900 40 sxs
250- 175 40 sxs
surface marker 10 sxs

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE Exploration Manager

DATE 8-28-72

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Form approved.
Budget Bureau No. 42-2355.5.

*** (See Instructions and Spaces for Additional Data on Reverse Side)**

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #1 SHINARUMP	2447	2501	op 10'/si 30'/op 60'/si 30' / rec: 60' sli MCW, 1875' water HP: 1263-1257#, SIP: 954-968# 1st FP: 121-391#, 2nd FP: 418-820#
DST #2 KAIBAB	2741	2756	op 10'/si 30'/op 60'/si 30' / rec: 1740' sulfur water HP: 1448-1434#, SIP: 978-950# 1st FP: 193-386#, 2nd FP: 344-937#

BLOWOUT PREVENTOR REPORT

Installed BOP after cementing 165;
13-5/8" surface casing. Tested to 1000#
on 6-23-72 for 30 minutes. From 6-28-72
rams were tested daily and on each trip
for new bit.

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Chinle	1730'	
Shinarump	2445'	
Moenkopi	2531'	
Kaibab	2738'	
White Rim	2815'	
Total Depth	3091'	Loggers

FEDERAL

Lease Name

Legal Location
Sec. - Twp. - Rng. 28-13-2501'28-13
Well No.1
Test No.

2447'-2501'

Tested Interval

WEBB RESOURCES

Lease Owner/Company Name

Field Area
WILDCAT

County

KANE

State
UTAH

FLUID SAMPLE DATA				Date 7-5-72		Ticket Number 529467	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District VERNAL	
Recovery: Cu. Ft. Gas _____				Tester MR. DAVIS		Witness MR. CRISMAN	
cc. Oil _____				Drilling Contractor BARKER DRILLING COMPANY DR S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Shinarump			
Tot. Liquid cc. _____				Elevation 4700' KB Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 54' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
<div style="display: flex; justify-content: space-around;"> <div>RESISTIVITY</div> <div>CHLORIDE CONTENT</div> </div>				Total Depth 2501' Ft.			
				Main Hole/Casing Size 8 3/4"			
Recovery Water _____ @ _____ °F. _____ ppm				Drill Collar Length 510' I.D. 2.25"			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Pipe Length 1899' I.D. 3.640"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Packer Depth(s) 2442'-2447' Ft.			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Depth Tester Valve 2427' Ft.			
Mud Pit Sample Filtrate 9.3 vis 20 cp							
Mud Weight _____							
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke 1/8" Bottom Choke 3/4"	
Recovered 1935 Feet of water							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks Opened tool for 10 minute first flow with a good blow, very strong blow in							
1 minute. Closed tool for 29 minute first closed in pressure. Reopened tool for							
60 minute second flow with a strong blow, declining slightly after 30 minutes.							
Closed tool for 31 minute second closed in pressure.							
TEMPERATURE		Gauge No. 490		Gauge No. 198		Gauge No.	
Depth: 2428 Ft.		Depth: 2497 Ft.		Depth: Ft.		TIME	
Est. 88 °F.		12 Hour Clock		12 Hour Clock		Tool A.M.	
Blanked Off No		Blanked Off Yes		Blanked Off		Opened 9:40 P.M.	
Actual °F.		Pressures		Pressures		Tool - A.M.	
		Field Office		Field Office		Closed 11:50 P.M.	
Initial Hydrostatic		1227 1214		1268 1254		Reported Computed	
Flow Initial		179 51		121 117		Minutes Minutes	
Flow Final		258 346		391 399		10 10	
Closed in		909 907		954 970		30 29	
Flow Initial		372 368		418 419		60 60	
Flow Final		799 790		820 850		30 31	
Closed in		923 899		968 962		30 31	
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		1213 1210		1250 1249			

Gauge No. 490			Depth 2428'		Clock No. 7129			12 hour	Ticket No. 529467						
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	51	.000		346	.000	368	.000		790					
1	.014	158	.0069		836*	.0688	492	.0206		877**					
2	.028	247	.0207		867	.1376	591	.0343		883					
3	.042	280	.0345		879	.2064	666	.0480		887					
4	.056	314	.0483		887	.2752	718	.0617		889					
5	.070	346	.0621		891	.3440	760	.0754		891					
6			.0759		895	.4130	790	.0891		892					
7			.0897		896			.1028		893					
8			.1035		897			.1165		894					
9			.1173		899			.1302		895					
10			.1311		900			.1439		896					
11			.1449		901			.1576		897					
12			.1587		903			.1713		898					
13			.1725		904			.1850		899					
14			.1863		905			.1987		899					
15			.2000		907			.2130		899					

Gauge No. 198			Depth 2497'					Clock No. 3806			12 hour				
0	.000	117	.000		399	.000	419	.000		850					
1	.0142	216	.0066		893*	.0667	548	.0201		938**					
2	.0284	243	.0198		930	.1334	650	.0335		944					
3	.0426	332	.0330		944	.2001	723	.0469		948					
4	.0568	364	.0462		952	.2668	776	.0603		950					
5	.0710	399	.0594		954	.3335	819	.0737		952					
6			.0726		957	.4000	850	.0871		956					
7			.0858		961'			.1005		957					
8			.0990		964			.1139		958					
9			.1122		966			.1273		960					
10			.1254		966			.1407		961					
11			.1386		968			.1541		962					
12			.1518		969			.1675		962					
13			.1650		970			.1809		962					
14			.1782		970			.1943		962					
15			.1910		970			.2080		962					

Reading Interval 2 2 10 2 Minutes

REMARKS: * First interval equal to 1 minute **-3 minutes.

529467



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6.0"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.640"	1899'	
Drill Collars	6.0"	2.25"	510'	
Handling Sub & Choke Assembly	5.0"	.89"	5'	
Dual CIP Valve				
Dual CIP Sampler	5.0"	.75"	5'	2427'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.0"	3.90"	4'	2428'
Hydraulic Jar	5.0"	1.50"	5'	
VR Safety Joint	5.0"	1.0"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7/75"	1.53"	6'	2442'
Distributor				
Packer Assembly	7/75"	1.53"	6'	2447'
Flush Joint Anchor	5.75"	3.75"	10'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6.0"	2.25"	30'	
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.75"	3.75"	5'	
Blanked-Off B.T. Running Case	5.75"	3.75"	5'	2497'

Legal Location
Sec. - Twp. - Rng.

28 - 39S - 8E

Field
Area

WILDCAT

County

KANE

State

UTAH

Lessee Name

Well No.

Test No.

Tested Interval

Lease Owner/Company Name

FEDERAL

28-13

2

2741' - 2757'

WEBB RESOURCES

FLUID SAMPLE DATA				Date 7-7-72		Ticket Number 529468	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District VERNAL	
Recovery: Cu. Ft. Gas _____				Tester DAVIS		Witness WEBSTER	
cc. Oil _____						CRISMAN	
cc. Water _____				Drilling Contractor BAKER DRILLING COMPANY		NM S	
cc. Mud _____				EQUIPMENT & HOLE DATA			
Tot. Liquid cc. _____				Formation Tested Timpoweap KAIBAB ?			
Gravity _____ ° API @ _____ ° F.				Elevation 4700' K.B. _____ Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				Net Productive Interval 16' _____ Ft.			
RESISTIVITY _____ CHLORIDE CONTENT _____				All Depths Measured From Kelly Bushing _____			
Recovery Water _____ @ _____ ° F. _____ ppm				Total Depth 2757' _____ Ft.			
Recovery Mud _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size 8 3/4" _____			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Collar Length 540' I.D. 2.25" _____			
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Drill Pipe Length 2160' I.D. 3.640" _____			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Packer Depth(s) 2735' - 2741' _____ Ft.			
Mud Weight 9.7 vis 25 cp				Depth Tester Valve 2721' _____ Ft.			
TYPE NONE AMOUNT _____				Depth Back Pres. Valve NONE		Surface Choke 1/8" Bottom Choke 3/4"	
Cushion _____ Ft.							
Recovered 1740' Feet of water				Meo. From Tester Valve			
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Remarks Tool opened with a good blow - very strong in 1 1/2 minutes of a 10 minute first flow. Closed tool for a 30 minute first closed in pressure.							
Tool reopened with a strong blow - declining 12 PSI in 25 minutes. Took a 31 minute second closed in pressure.							
TEMPERATURE		Gauge No. 490	Gauge No. 198	Gauge No. _____	TIME		
Depth: 2722' Ft.		Depth: 2754' Ft.	Depth: _____ Ft.				
Est. 98 ° F.		12 Hour Clock	12 Hour Clock	Hour Clock			
Blanked Off NO		Blanked Off YES	Blanked Off		Test *** 4:44 ***		
Actual ° F.		Pressures	Pressures	Pressures	Opened 5:00 P.M.		
		Field Office	Field Office	Field Office	Tool *** 4:44 ***		
Initial Hydrostatic		1344 1414	1448 1433		Closed 7:10 P.M.		
First Period Flow Initial		216 88	193 112		Reported Minutes		
Final		337 361	344 377		Computed Minutes		
Closed in		941 972	978 988		10 10		
Second Period Flow Initial		364 380	386 396		30 30		
Final		767 785	937 803		60 59		
Closed in		887 959	950 971		30 31		
Third Period Flow Initial							
Final							
Closed in							
Final Hydrostatic		1344 1399	1434 1417				

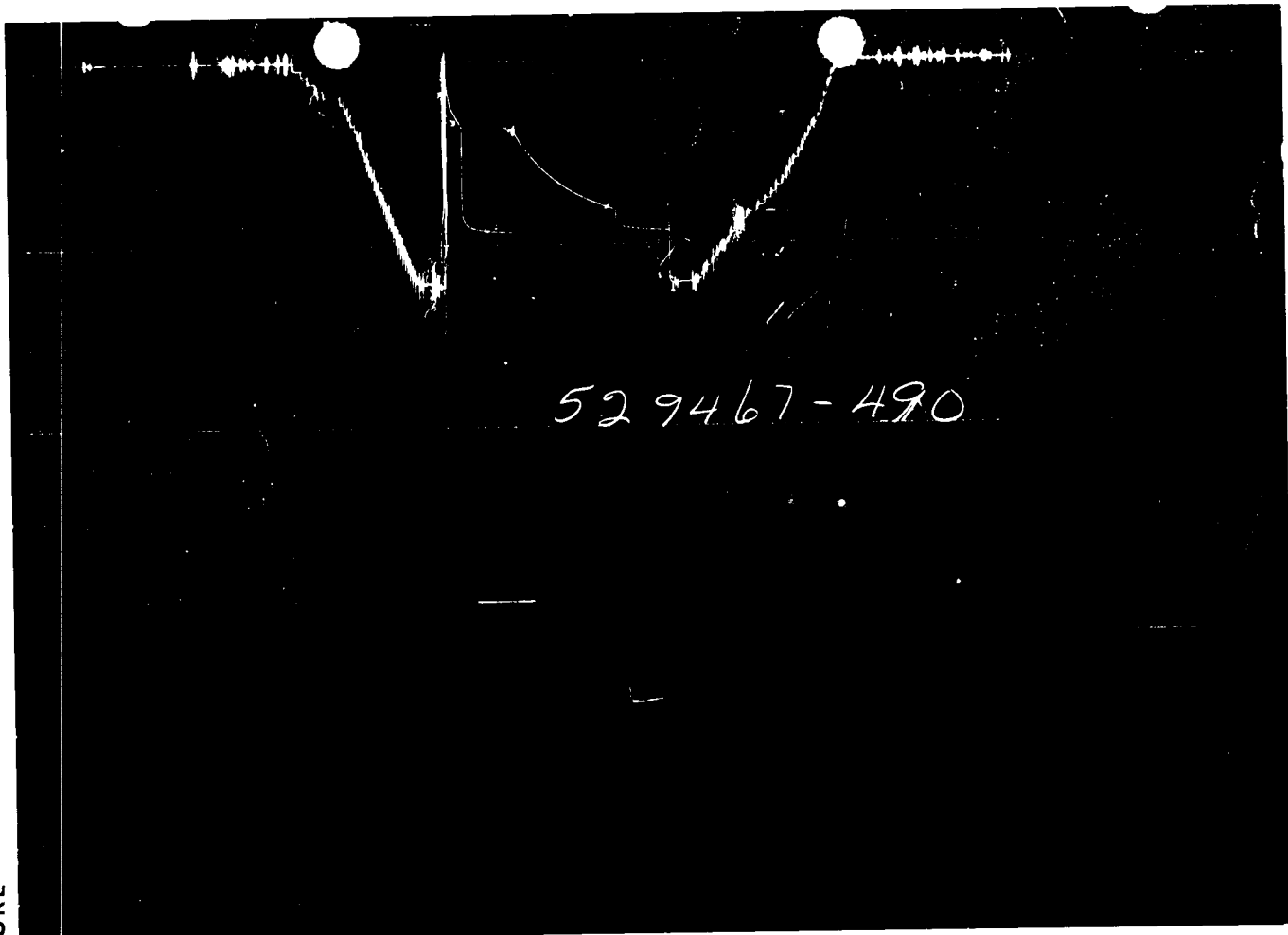
Gauge No.			490			Depth		2722'		Clock No.		7129		12 hour	Ticket No.	529468			
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
0	.000	88	.000		361	.000	380	.000		785									
1	.0136	174	.0205		904	.0621	490*	.0274		916**									
2	.0272	262	.0410		927	.1311	590	.0479		930									
3	.0408	295	.0615		941	.2001	663	.0684		937									
4	.0544	326	.0820		950	.2691	715	.0889		942									
5	.068	361	.1025		957	.3381	755	.1094		946									
6			.1230		961	.407	785	.1299		949									
7			.1435		964			.1504		952									
8			.1640		968			.1709		953									
9			.1845		970			.1914		955									
10			.205		972			.212		959									
11																			
12																			
13																			
14																			
15																			

Gauge No. 198			Depth 2754'			Clock No. 3806			hour 12					
0	.000	112	.000		377	.000	396	.000		803				
1	.014	186	.020		921	.0598	511*	.0266		933**				
2	.028	275	.040		944	.1262	607	.0465		944				
3	.042	311	.060		957	.1926	678	.0664		952				
4	.056	345	.080		965	.2590	731	.0863		957				
5	.070	377	.100		971	.3254	771	.1062		961				
6			.120		976	.392	803	.1261		964				
7			.140		979			.1460		965				
8			.160		983			.1659		968				
9			.180		985			.1858		969				
10			.200		988			.206		971				
11														
12														
13														
14														
15														
Reading Interval 2			3			10			3			Minutes		

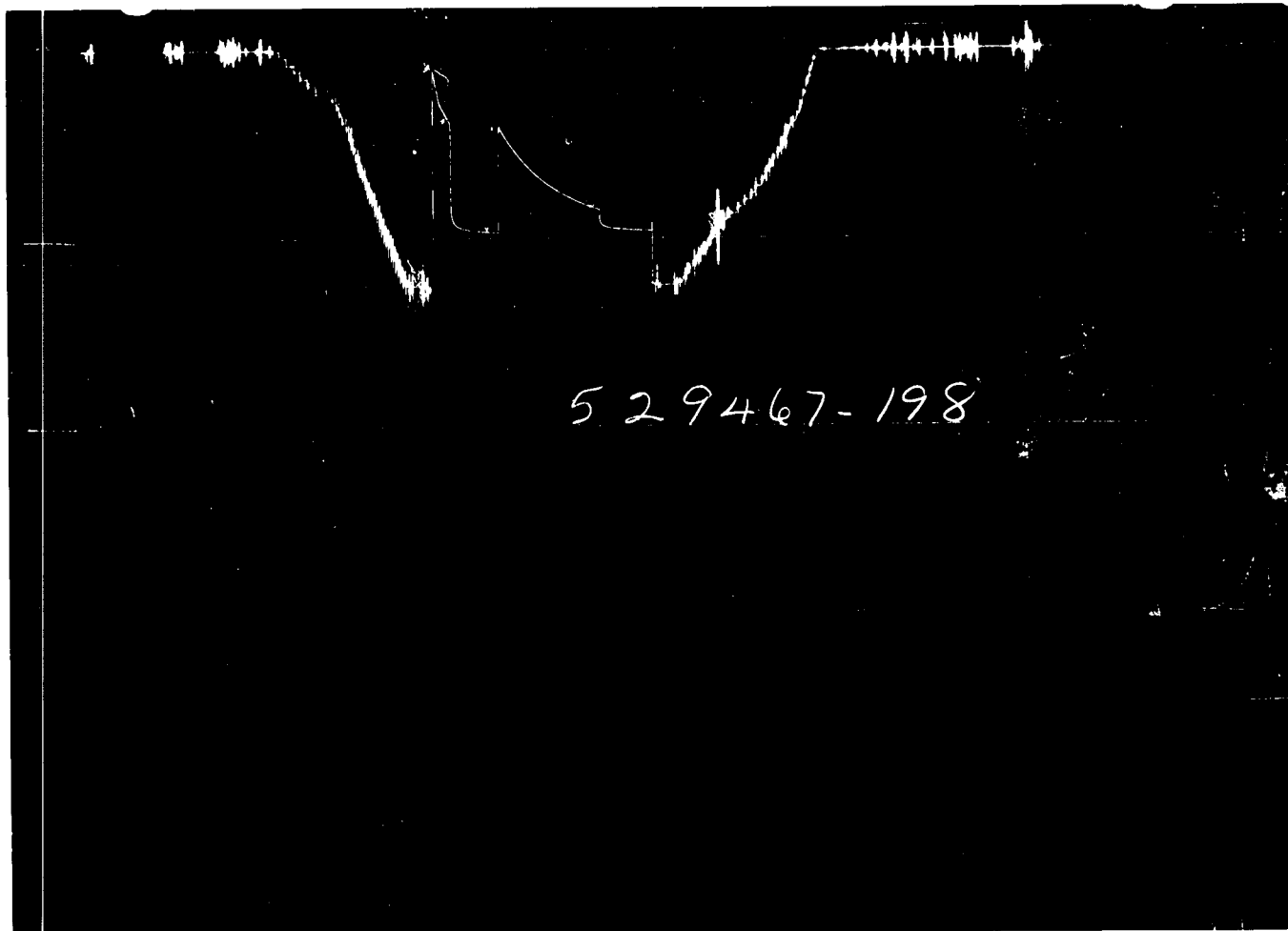
REMARKS: * INTERVAL = 9 MINUTES. ** INTERVAL = 4 MINUTES.

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6.00"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.640"	2160'	
Drill Collars	6.0"	2.25"	540'	
Handling Sub & Choke Assembly	5"	.89"	5'	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5'	2721'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.0"	3.90"	4'	2722'
Hydraulic Jar	5.0"	1.50"	5'	
VR Safety Joint	5.0"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7.75"	1.53"	6'	2735'
Distributor				
Packer Assembly	7.75"	1.53"	6'	2741'
Flush Joint Anchor	5.75"	3.75"	8'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5.75"	3.75"	5.50'	2754'

↓ PRESSURE

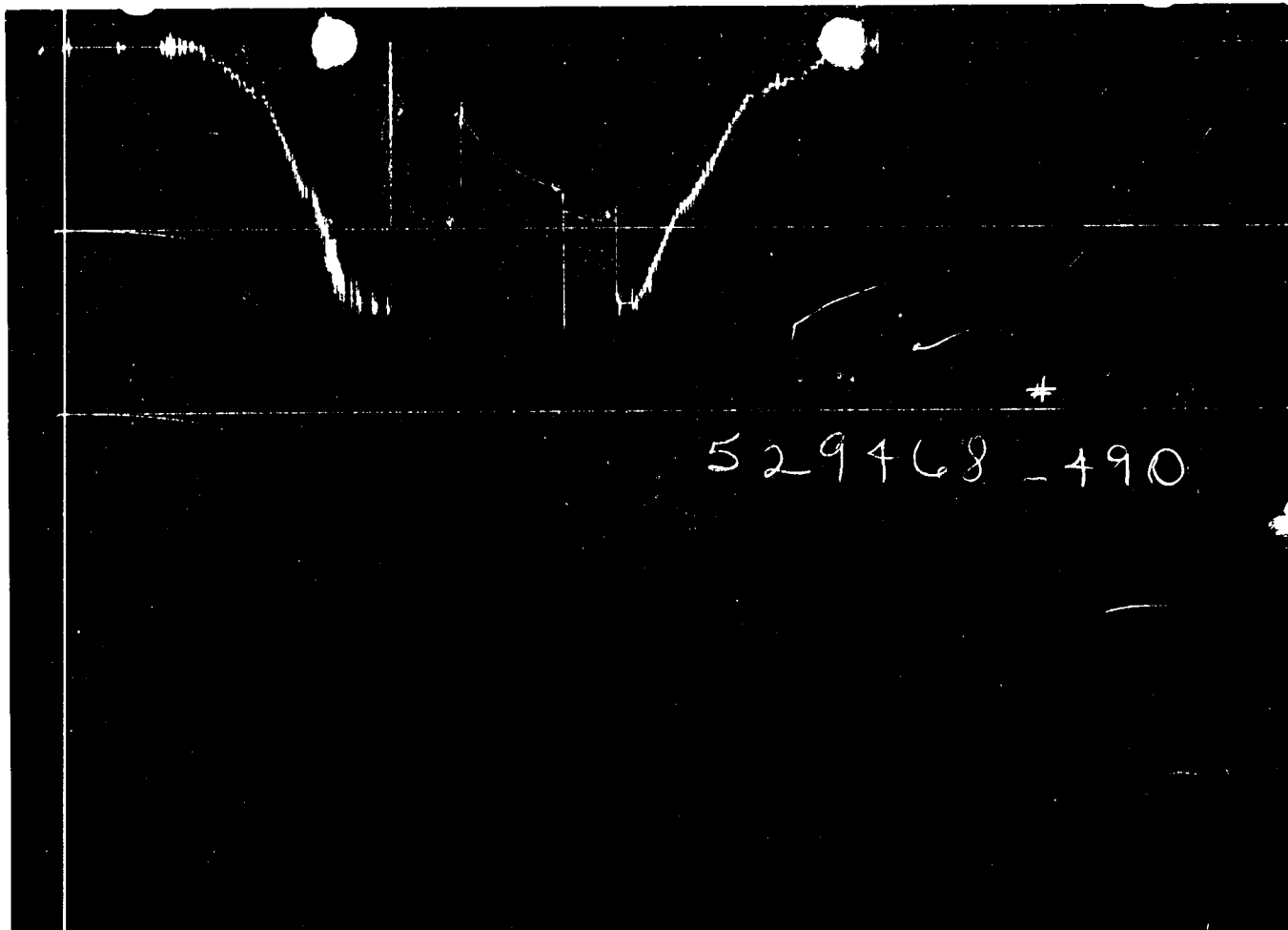


→ TIME

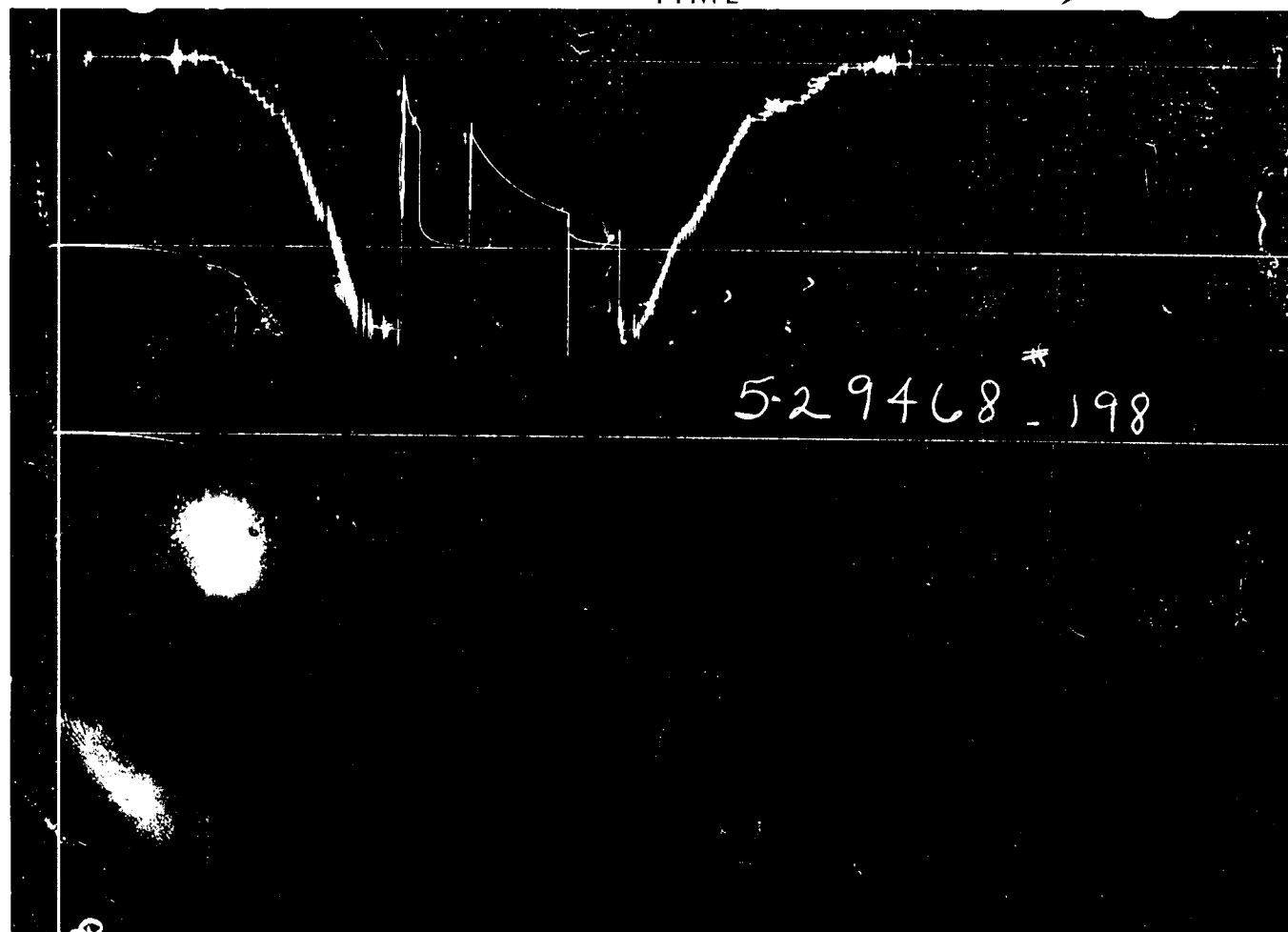


Each Horizontal Line Equal to 1000 p.s.i.

PRESSURE



TIME



Each Horizontal Line Equal to 1000 p.s.i.

Michael S. Webster
Consulting Geologist
555 Petroleum Club Building
Denver, Colorado 80202
—
893-6453

GEOLOGICAL WELL REPORT

WEBB RESOURCES, INC.

#28-13 Federal

Kane County, Utah

WELL DATA

Operator: Webb Resources, Inc.
Suite 1300, Denver Center Building
1776 Lincoln Street
Denver, Colorado 80203

Well: #28-13 Federal

Location: SW SW Section 28
T39S R8E
Kane County, Utah
Wildcat

Elevations: 4700' KB
4691' Ground

Contractor: Barker Drilling and Well Service Company
Vernal, Utah

Commenced: June 28, 1972

Surface Casing: 13 5/8" set at 215' KB with 160 sacks

Hole Size: 8 3/4"

Drilling Fluid: Low Solids Gel with Crude
Engineer: Dan Reid, Milchem
Escalante, Utah

Cores: None

Drillstem Tests: Halliburton, Vernal, Utah
Wayne Davis, Tester

Samples: Delivered to American Stratigraphic,
Denver, Colorado, on July 11, 1972

Logging: Schlumberger Induction and Compensated
Sonic with Gamma Ray
Engineer: Mike Martin
Farmington, New Mexico

Total Depth: Reached 3:30 A. M., July 9, 1972
3091' Driller
3092' Log

Status: Plugged and Abandoned, July 10, 1972

WELL HISTORY

<u>Date</u>	<u>Depth</u>	<u>Activity</u>	<u>Footage Made</u>	<u>Remarks</u>
6-28		Rigging up		Spud at 9:00 P.M.
6-29		Reaming		Reamed 13 1/4" Surface Hole to 17 1/8", Ran 13 3/8" casing to 215', KB, cemented with 215 sacks.
6-30	215'	Nippling up	215'	
7-1	1100'	Drilling	885'	
7-2	1650'	Drilling	550'	
7-3	1937'	Trip for bit #3	287'	8 hours working tight hole.
7-4	2220'	Drilling	283'	
7-5	2501'	Circulating for DST #1	281'	
7-6	2525'	Drilling	24'	
7-7	2757'	Circulating for DST #2	232'	
7-8	2857'	Drilling	100'	
7-9	3091'	Circulating for logs	234'	Reached TD at 3:30 A.M. Began logging at 2:15 P.M. Finished logging at 6:00 P.M.
7-10	3091'	Plugging		

BIT RECORD

<u>Run</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours</u>
X	13 1/4"	Reed	YT1AJ	255'	255'	8 1/2
X	17 1/8"	Reed	H.O.	226'	226'	3 1/4
1	8 3/4"	Reed	YS1G	576'	321'	7
2	8 3/4"	Reed	SCH5-J	1937'	1361'	58
3	8 3/4"	Security	DMJ	2261'	324'	17 3/4
4	8 3/4"	Security	M4NG	2501'	240'	9 1/2
5	8 3/4"	Security	M4NG	2757'	256'	13
6	8 3/4"	Hughes	J44	3091'	333'	26 1/2
						143 1/2

DEVIATION RECORD

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
226'	3/4°	2261'	3 3/4°
255'	0	2501'	4 1/2°
576'	1 3/4°	2757'	2 3/4°
1937'	2 1/2°		

PLUGGING PROGRAM

Verbal plugging orders were received from Mr. Gerald Daniels, United States Geological Survey, Salt Lake City, on July 9, 1972, at 10:00 A. M.

<u>Interval</u>	<u>Sacks</u>
2825'-2725'	40
1000'-900'	40
250'-175'	40
Surface	10, with dry hole marker

FORMATION TOPS

<u>Formation</u>	<u>Log Depth</u>	<u>Datum</u>
Chinle	1730'	+2970'
Shinarump	2445'	+2255'
Moenkopi	2531'	+2169'
Kaibab	2738'	+1962'
White Rim	2815'	+1885'

DRILLSTEM TESTS

DST#1 2447'-2501' Conventional test (Shinarump Formation) Open 10", Shut in 30", Open 60", Shut in 30". Tool opened with strong blow, bottom of bucket in 1 minute.

Recovered: 60' slightly mud cut water
1875' water, $R_w = 1.04$ @ 72°

H.P. 1263#-1257#
1st F.P. 121#-391#
2nd F.P. 418#-820#
S.I.P. 954#-968#
B.H.T. 88°

DST#2 2741'-2756' Conventional test (Kaibab Formation) Open 10", Shut in 30", Open 60", Shut in 30". Tool opened with strong blow, bottom of bucket in 1 1/2 minutes.

Recovered: 1740' Sulfur water, $R_w = 2.23$ at 72°

H.P. 1448#-1434#
1st F.P. 193#-386#
2nd F.P. 344#-937#
S.I.P. 978#-950#
B.H.T. 98°

FIELD LOG CALCULATIONS

<u>Formation</u>	<u>Depth</u>	<u>R_w</u>	<u>Porosity</u>	<u>S_w</u>
Shinarump	2450'	0.75	15%	90%
"	2470'	0.75	17%	72%
"	2500'	0.75	18%	69%
Kaibab	2743'	1.60	17%	35%
"	2748'	1.60	17%	93%
"	2760'	1.60	13%	100%
"	2800'	1.60	15%	92%
White Rim	2825'	1.60	10%	72%

GEOLOGICAL DISCUSSION

The Webb Resources #28-13 Federal was drilled to a total depth of 3091' and plugged and abandoned on July 10, 1972.

Show evaluation by samples was complicated due to the fact that up to 17% crude oil was in the mud.

Valid shows were observed in the Permian Kaibab Formation. Stain was observed throughout this interval on fresh breaks in the samples. A drillstem test of the upper part recovered sulfur water. The Triassic Shinarump Sand also carried shows that are believed to be valid. Due to the friable nature of this sand, evaluation was difficult, but several tighter chips had stain throughout. A drillstem test recovered water.

Another primary objective, the White Rim Sand of Permian Age, carried no valid shows. All staining in this interval was obviously contamination.

Due to the good sample shows in the Kaibab, and the probable shows in the Shinarump, further geological investigation of the area seems merited.


Michael S. Webster

SAMPLE DESCRIPTION

Samples adjusted to log depths. Sample quality, fair to good.

- 250'-280' Sand, pink to orange, medium to coarse grained, fair sorted, good porosity, no shows.
- 280'-370' Sand, orange to red, fine to medium grained, friable, fair sorted, subround, good porosity, no shows.
- 370'-490' Sand, as above, part conglomeratic, good porosity, no shows. Part slightly dolomitic.
- 490'-520' Sand, orange to pink, medium grained, well sorted, subround, trace gypsum, good porosity, no shows.
- 520'-790' Sand, orange to pink, medium to coarse grained, part conglomeratic, fair sorted, subround, good porosity, no shows.
- 790'-1130' Sand, as above, becoming finer grained, scattered interstitial white clay, fair porosity, no show.
- 1130'-1210' Sand, pink to orange, fine to medium fine grained, scattered coarse grains, fair sorted, subround, part clay plugged, fair to good porosity, no shows.
- 1210'-1440' Sand, as above, interbedded with siltstone, red to orange, sandy, slightly dolomitic.
- 1440'-1630' Sand, red to lavender, fine grained, fair sorted, subround, slightly dolomitic, fair to poor porosity, no shows, interbedded with siltstone, as above.
- 1630'-1730' Sand, orange to pink, fine grained, fair to well sorted, subround, fair to good porosity, no show, interbedded with claystone, red.
- 1730'-1950' Interbedded Siltstone, red, orange, sandy, dolomitic, and Dolomite, pink, very finely sucrosic, shaley, and Claystone, lavender to pale green, slightly calcareous.
- 1950'-2085' Claystone, orange, red, pink, green, subwaxy in part, occasional dolomite nodule, occasional coarse floating sand grains.
- 2085'-2175' As above, interbedded with Sand, light gray to white, medium to coarse grained, very friable, part slightly arkosic, probably good porosity, no shows.

- 2175'-2220' Claystone, purple to pale green, subwaxy, slightly calcareous.
- 2220'-2445' Mostly Siltstone, orange to gray green, sandy, calcareous, part glauconitic, interbedded with Claystone, gray green.
- 2445'-2531' Sandstone, buff to gray, medium grained, fair sorted, subround to subangular, good porosity, friable, fair yellow fluorescence, light stain, fair to good cut. (This show is in part contamination from crude in mud system. Part, however, is probably a true show. Several lighter chips had stain on fresh breaks.)
- 2531'-2610' Interbedded Shale, red to brown, blocky, firm, silty, calcareous in part, and Siltstone, brown to dark red, sandy, with Claystone, brown, blocky.
- 2610'-2690' As above, with much Siltstone, red, calcareous, sandy, hard.
- 2690'-2741' Mostly Siltstone, brown to pink, sandy, dolomitic, trace pyrite, with stringers of Sand, gray, fine grained, tight, no show.
- 2741'-2770' Dolomite, tan, finely sucrosic, slightly sandy, fair to good pinpoint and vuggy porosity, uniform brown stain, good yellow fluorescence, good streaming cut. (Show partially due to contamination, but mostly due to a true show.)
- 2770'-2815' Dolomite, as above, good porosity, good show, becomes very sandy in part, interbedded with Sand, light gray to buff, medium grained, subround, well sorted, fair to good porosity, uniform brown stain, good fluorescence and cut.
- 2815'-2865' Sand, as above, fair to good porosity, several tight chips with no stain on fresh breaks indicating no true shows. Interbedded with Dolomite (20% Dolomite), as above, no shows.
- 2865'-2960' Sand, light gray, fine to medium grained, fair sorted, subround, fair porosity, no shows. (contaminated)
- 2960'-3091' Sand, as above, interbedded with Shale, varicolored, part silty and sandy, hard, part slightly anhydritic. No shows.

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

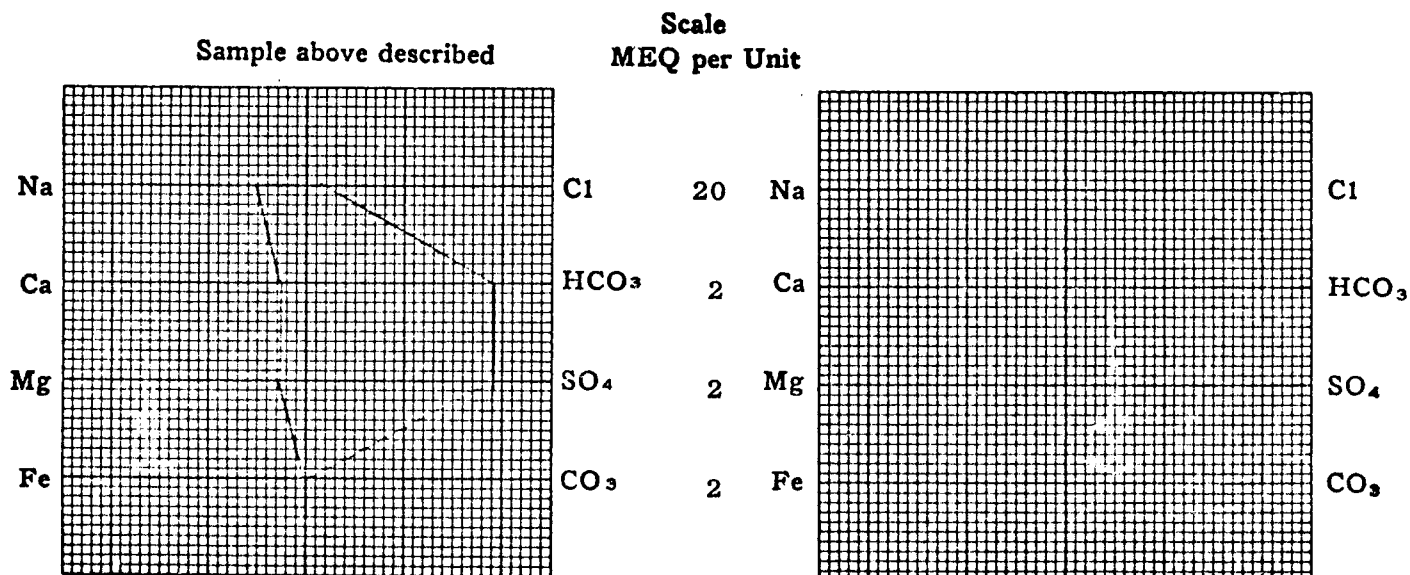
WATER ANALYSIS REPORT

OPERATOR	Webb Resources	DATE	July 25, 1972	LAB NO.	8246-1
WELL NO.	28-13 Federal	LOCATION	SW SW 28-39S-8E		
FIELD	Wildcat	FORMATION	Shinarump		
COUNTY	Kane	INTERVAL	2447-2501		
STATE	Utah	SAMPLE FROM	DST No. 1 (Bottom)		

REMARKS & CONCLUSIONS: Oily water with clear filtrate.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	2132	92.74	Sulfate	1856	38.60
Potassium	91	2.33	Chloride	980	27.64
Lithium	-	-	Carbonate	-	-
Calcium	103	5.14	Bicarbonate	2342	38.41
Magnesium	54	4.44	Hydroxide	-	-
Iron	present	-	Hydrogen sulfide	-	-
Total Cations			Total Anions		
104.65			104.65		
Total dissolved solids, mg/l			Specific resistance @ 68°F.:		
6369			Observed		
NaCl equivalent, mg/l			1.25 ohm-meters		
4969			Calculated		
Observed pH			1.25 ohm-meters		
7.6					

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l=Milligrams per liter Meq/l= Milligram equivalents per liter
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number #28-13 Federal
Operator Webb Resources, Inc. Address Denver, Colorado Phone 892-5504
Contractor Barker Drilling Address Vernal, Utah Phone 789-2101
Location SW 1/4 SW 1/4 Sec. 28 T. 39S N R. 8E E Kane County, Utah.
S W

Water Sands:

	<u>Depth:</u> From- To-	<u>Volume:</u> Flow Rate or Head-	<u>Quality:</u> Fresh or Salty-
1.	<u>Surface</u> <u>1700</u> <u>Navejo</u>		<u>Fresh</u>
2.	<u>2450</u> <u>2530</u> <u>Shinarump</u>		<u>Fresh</u>
3.	<u>2738</u> <u>2815</u> <u>Kaibab</u>		<u>Fresh</u>
4.			
5.			

(Continue on reverse side if necessary)

Formation Tops:

Chinle	1730	Kaibab	2738
Shinarump	2445	White Rim	2815
Moenkopi	2531		

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform this office.
 - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of this form)
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

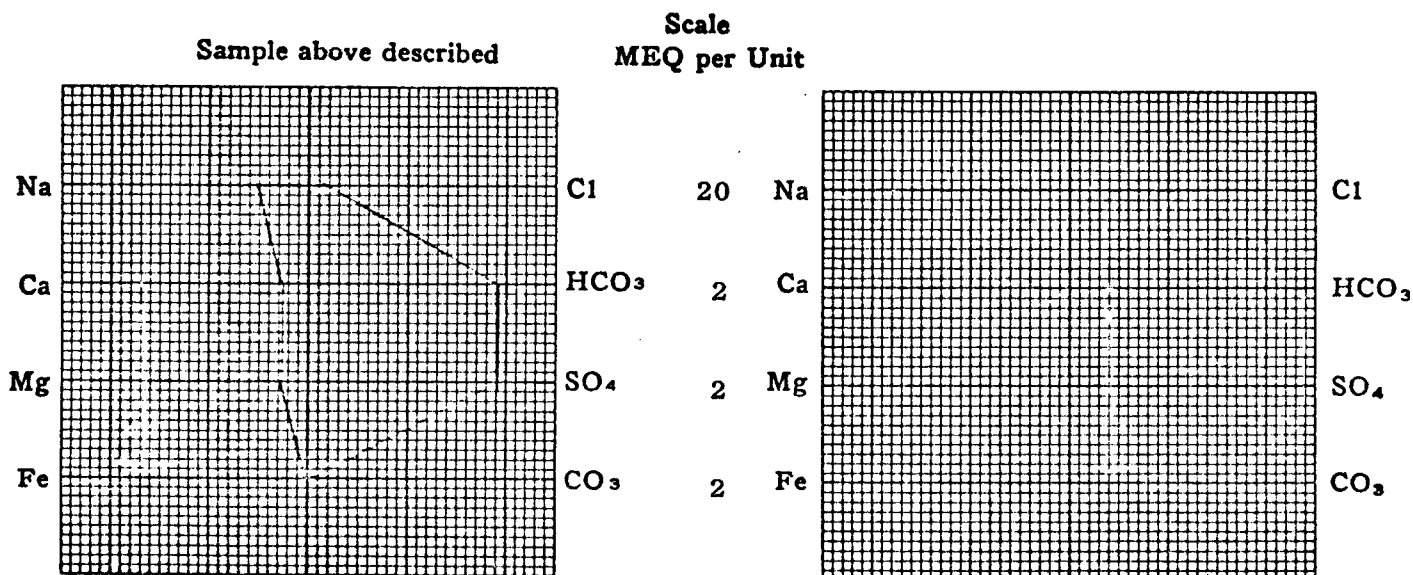
WATER ANALYSIS REPORT

OPERATOR	Webb Resources	DATE	July 25, 1972	LAB NO.	8246-1
WELL NO.	28-13 Federal	LOCATION	SW SW 28-39S-8E		
FIELD	Wildcat	FORMATION	Shinarump		
COUNTY	Kane	INTERVAL	2447-2501		
STATE	Utah	SAMPLE FROM	DST No. 1 (Bottom)		

REMARKS & CONCLUSIONS: Oily water with clear filtrate.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	2132	92.74	Sulfate	1856	38.60
Potassium	91	2.33	Chloride	980	27.64
Lithium	-	-	Carbonate	-	-
Calcium	103	5.14	Bicarbonate	2342	38.41
Magnesium	54	4.44	Hydroxide	-	-
Iron	present	-	Hydrogen sulfide	-	-
Total Cations			Total Anions		
104.65			104.65		
Total dissolved solids, mg/l			Specific resistance @ 68°F.:		
6369			Observed		
NaCl equivalent, mg/l			1.25 ohm-meters		
4969			Calculated		
Observed pH			1.25 ohm-meters		
7.6					

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l=Milligrams per liter Meq/l= Milligram equivalents per liter

Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components